## **Department of Technology Services Performance Review**

Steve Emanuel, Director June 5, 2009



## **CountyStat Principles**

- Require Data-Driven Performance
- Promote Strategic Governance
- Increase Government Transparency
- Foster a Culture of Accountability





## **Agenda**

- Welcome and Introductions
- Performance Update
- Special Topic: Project Management Dashboard
- Wrap-up and Follow-up Items



## **Meeting Goals**

- Determine the impact of DTS work on headline measures and establish new performance expectations and goals
- Introduce project management dashboard and preliminarily assess IT project data



#### **Headline Measures**

- 1. Number of minutes certain IT systems are out of service
- 2. County Email Messaging
  - Number of email messages sent and received
  - Number of email messages filtered or blocked
- 3. Average number of seconds to serve a web page
- 4. Percent of DTS Help Desk requests that are resolved on the first call
- 5. Average number of workdays to complete Telecom requests
- 6. Customer Service
  - Percent of customers satisfied with Cable Office complaint handling
  - Service to internal users
- 7. Closed Captioning and Mobile Events Services
  - Number of hours for closed captioned for CCM productions
  - Percent of CCM programming that is closed captioned
- 8. Security
  - Percent of County Employees who participated in Information Security training
  - Security event measure Under Construction
- 9. Project management measure *Under Construction*





## **Enterprise Technology Strategic Plan Aligning IT with County Mission and Goals**

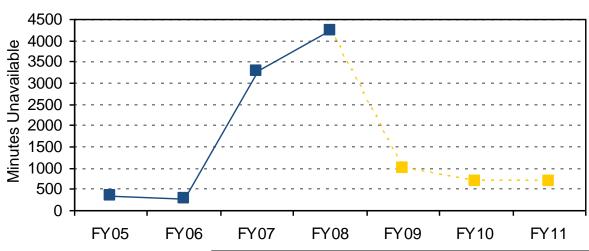
- The Enterprise Technology Strategic Plan (ETSP) is intended to present the collective enterprise statement of policy for an approach to IT, the DTS vision, directional statements and broad decision guidelines for technology initiatives. It also provides the guidelines through which IT projects are selected, planned, executed, and measured.
- As an enterprise strategy, the ETSP demonstrates the implementation of "best practices" and solutions implemented by DTS that can be embraced by other County departments as well as opportunities that can be explored in other agencies to gain similar efficiencies and proactive business outcomes.

DTS recently completed an enterprise-wide IT strategic plan.
Validation through acceptance of IT strategies ensures that DTS performance measures represent key customer needs.





## Headline Measure #1: Number of minutes certain IT systems are out of service



	FY05	FY06	FY07	FY08	FY09	FY10	FY11
CAD	203	60	0	54	120	120	220
eMail (internal)	61	192	647	108	180	10	12
eMail (external)	71	15	64	105	10	20	20
Mainframe	0	0	0	1080	90	0	0
Internet Access	1	1	989	263	60	0	0
Network (internal)	-		1576	2628	525	525	525



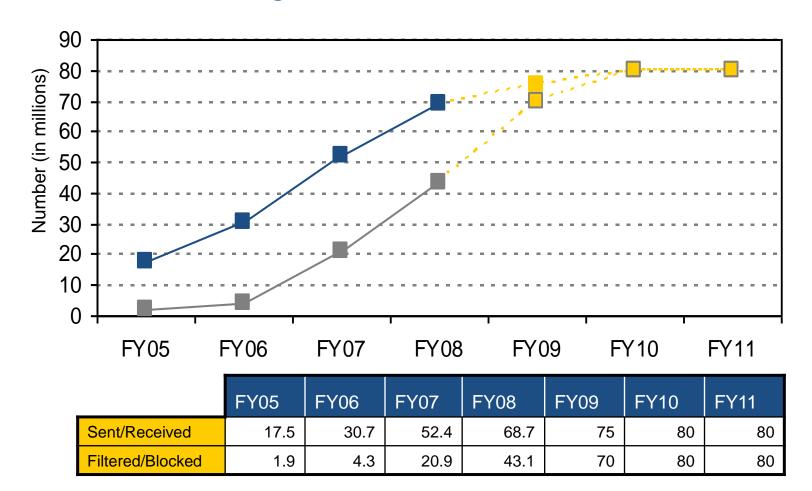






## **Headline Measure #2: County Email Messaging**

Number of email messages sent and received Number of email messages filtered or blocked



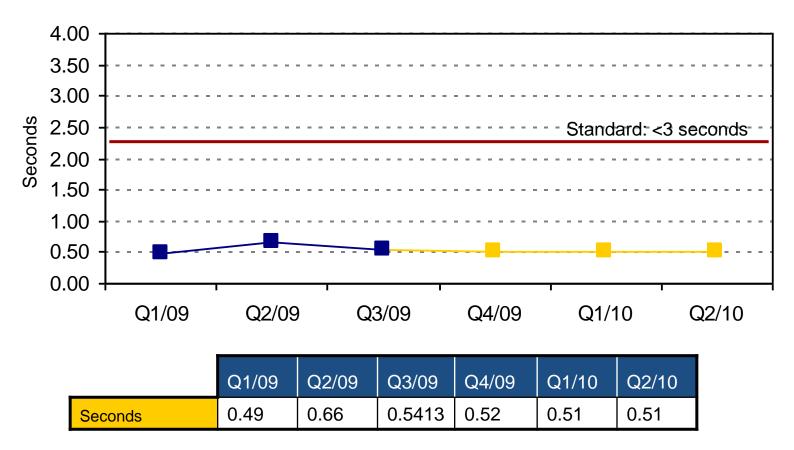








## Headline Measure #3: Average number of seconds to serve a web page



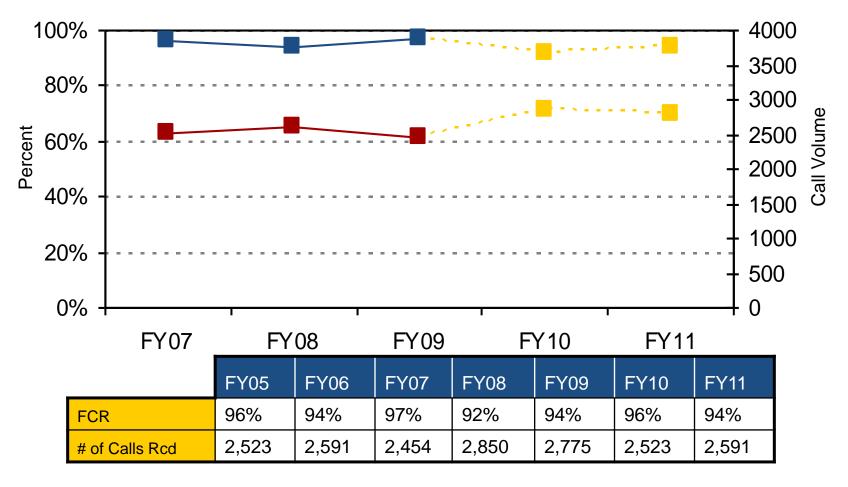
Definition: This represents the average time it takes from the point the server got the page request until it transmitted all the data.



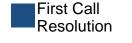


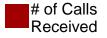
**CountyStat** 

## Headline Measure #4: Percent of DTS Help Desk requests that are resolved on the first call





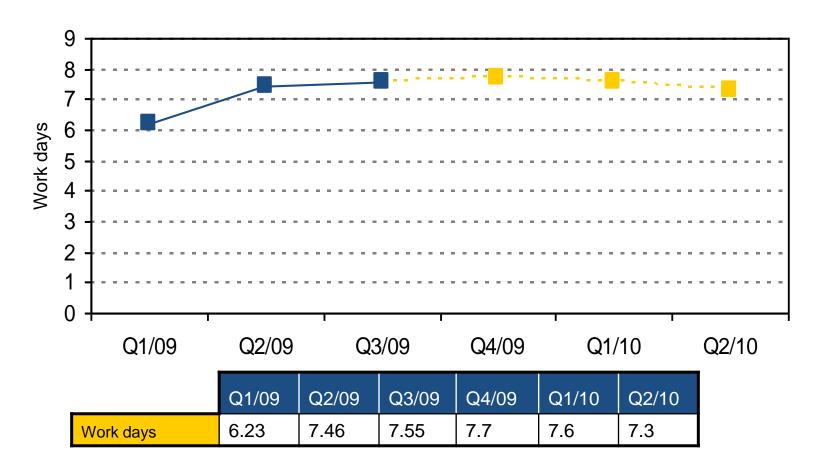








## Headline Measure #5: Average number of workdays to complete Telecom requests

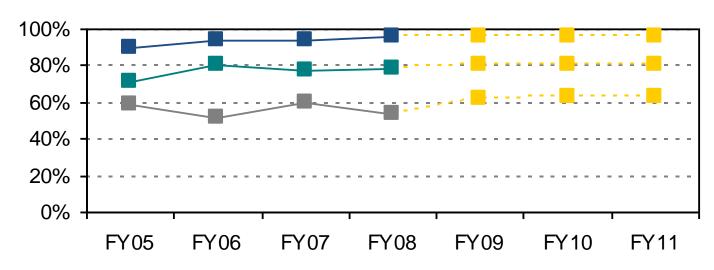








# Headline Measure #6A: Customer Service For County Residents Percent of Customers Satisfied with Cable Office Complaint Handling Percent of Customers Satisfied with Complaint Resolution



	FY05	FY06	FY07	FY08	FY09	FY10	FY11
Complaint Handling	90%	94%	94%	96%	96%	96%	96%
Complaint Resolution	71%	80.2%	77%	78.5%	80%	80%	80%
Response Rate	58.7%	51.5%	60.2%	54.1%	62%	63%	63%



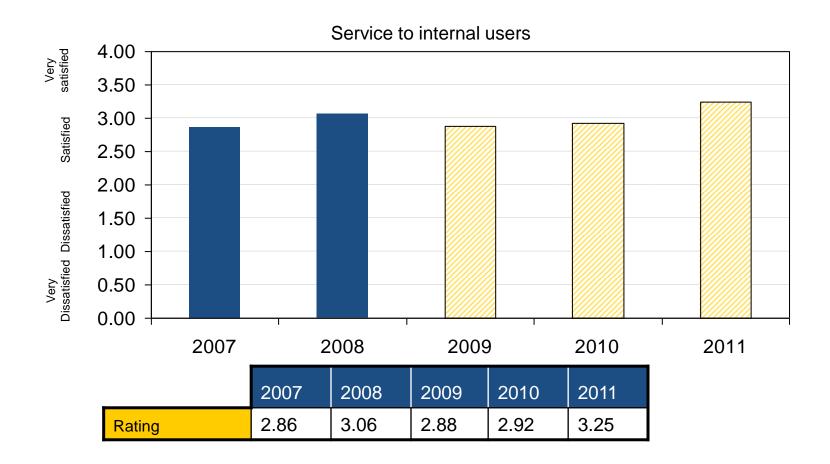
Customer Satisfied
with Complaint Resolution
Projected
performance



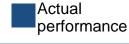
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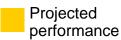
CountyStat

### **Headline Measure #6B: Customer Service to Internal Users**



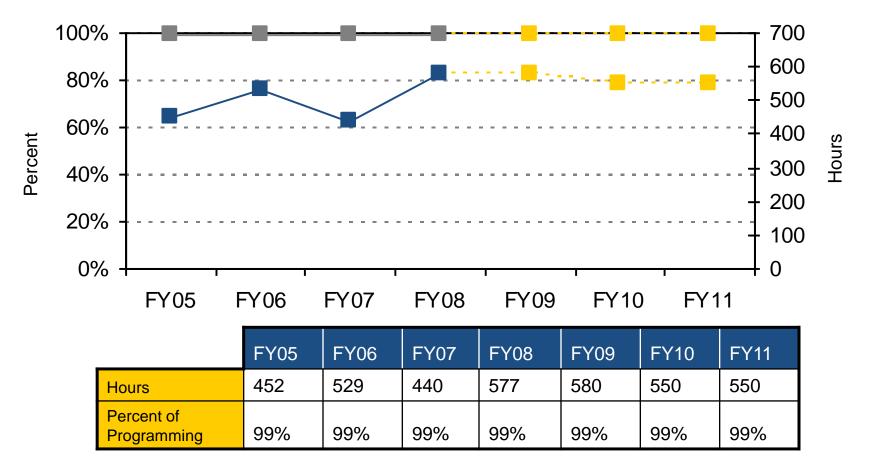




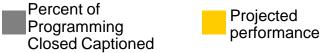


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# Headline Measure #7: Closed Captioning Number of hours for closed captioned for CCM productions Percent of CCM programming that is closed captioned







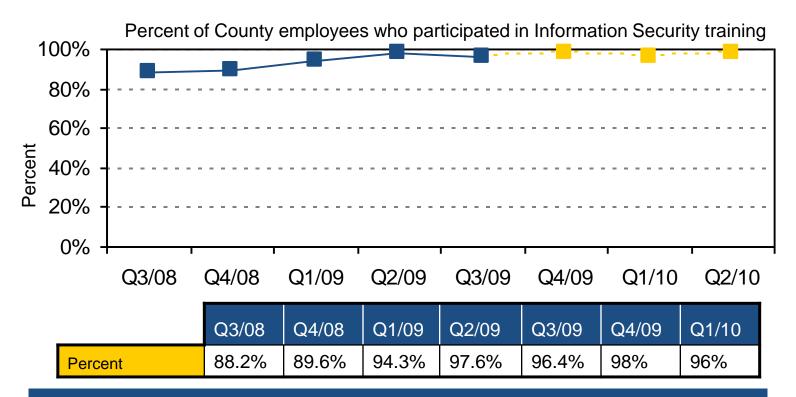


Number of hours

**CountyStat** 

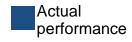
### **Headline Measure #8: Security**

#### Percent of County Employees who participated in Information Security training **Security event measure**



Information Security disciplines and proactive assessments protects intellectual data and minimizes compromise that impacts daily performance in serving residents.







6/5/2009

### **Headline Measure #8: Security**

Percent of County Employees who participated in Information Security training Security event measure *Under Construction* 

### Status on the development of the Security Event measure

- Infrastructure necessary for accurate event metrics has been installed and is in the process of being configured.
- Raw data for risk-based metrics has been captured and is being compiled for an enterprise view.

Initial data points related to security risk and events are expected for the next headline measure update.





### **Headline Measure #9: Project Management Measure**

### Status on the development of the Project Management measure

- DTS Senior Management requested the use of a data-driven, consistent method to provide monthly status reporting
- The PMO reviewed PMI (Project Management Institute) standards and visited the PMOs of local jurisdictions (Fairfax, Baltimore, Arlington, State of Maryland) to review their project control processes and how each group determined:
  - What aspects of projects were measured to determine health
  - Whether a project was succeeding or failing
  - Standards for tracking these measures

DTS has developed a project management dashboard using five key project factors (budget, schedule, issues, risks, scope).





### **Headline Measure #9: Project Management Measure**

#### This resulted in the creation of the MCG IT Portfolio Dashboard:

- Method to determine an quantitative view of overall project health based on five key project factors
  - Budget
  - Schedule
  - Issues
  - Risks
  - Scope
- Consistent method of tracking key components of projects
- Standard template used to collect status data
- Roll-up levels to show project trending, program views and an overall portfolio summary





## MCG IT Portfolio Dashboard Reporting – Overview

MCG IT Initiative DASHBOARD

April 30, 2009

## **Key information**

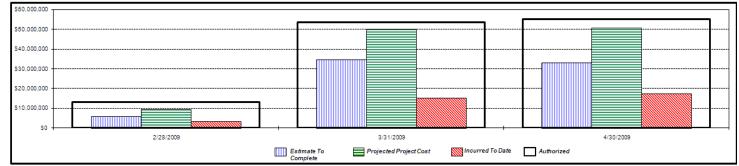
#### **MCG Portfolio View**

Shows summary view of overall health of major **DTS** initiatives

- Total Projects
- Budget Variance
- Schedule Variance
- Health Indicators

Initiative	‡ of Projects	% Complete	Actual	Projected End	% Schedule Variance	Schedule	Authorized	Estimate To Complete	Projected Project Cost	Incurred to Date	% Projected Project Variance	budget Issues Risk	Scope Overall Status
TechMod	3	39%	8/1/08	5/31/10	0%	G	<b>\$46,019,349</b>	\$29,895,334	<b>\$</b> 41,459,850	\$11,564,516	-10%	GYY	G Y
ERP (Phase 0)*	1	48%	1/9/09	9/14/09	0%	G	\$37,398,292	\$24,586,120	\$33,545,403	\$8,959,283	-10%	6 G G	G G
CRM*	1	48%	8/1/08	3/1/10	0%	G	\$5,720,537	\$3,314,967	\$5,357,695	\$2,042,728	-6%	G G Y	G G
MCtime Deployment	1	20%	9/1/08	5/31/10	0%	G	\$2,900,520	\$1,994,247	\$2,556,752	\$562,505	-12%	G Y Y	G Y
IJIS Program	3	53%	3/1/04		0%	G	\$5,892,574	\$2.853.794	<b>\$</b> 5,894,356	\$3.040.561	0%	G G R	G Y
SAO Case Management System*	1	37%	4/30/08		0%	- 1	\$1,349,810	\$552,013	\$1,349,810	\$797,797	0%	G G Y	G G
CRIMS*	1	22%	12/31/08		0%	1	\$2,369,000	\$2,300,000	\$2,369,000	\$69,000	0%	G G R	G Y
IJIS Core	- 1	99%	3/1/04	5/20/09	0%	G	\$2,173,764	\$1,781	\$2,175,546	\$2,173,764	0%	G G I	G G
PSCS	6	24%	9/9/08	4/30/10	0%	G	\$3,068,684	\$122,684	\$3,068,684	\$2,946,000	0%	GYR	GY
Station Alerting	1	0%	4/1/09	6/28/09	0%	G	\$122,684	\$122,684	\$122,684	\$0	0%	G G Y	G G
CAD Server Replacements*	1	25%	10/1/08	12/31/09	0%	G	\$0	\$0	\$0	\$0	0%	I G B	G Y
DataLink Conversion to PCS	1	10%	9/9/08	4/30/10	0%	G	\$0	\$0	\$0	\$0	0%	1 G G	G G
eJustice - Phase 2 Rollout*	1	80%			0%	- 1	\$0	\$0	\$0	\$0	0%	I Y Y	G I
PSCS Radio Upgrade Modernization	1	20%	3/31/09	6/30/09	0%	G	\$2,946,000	\$0	\$2,946,000	\$2,946,000	0%	G G G	G G
FRS Data911 MDT Replacements	1	10%	3/1/09	1/1/10	0%	G	\$0	\$0	\$0	\$0	0%	1 G G	G G
Departmental Initiatives	5	41%	12/1/07	12/31/09	0%	G	\$108,000	\$108,000	\$108,000	<b>\$</b> 0	0%	G G Y	G G
Financial Disclosure System (FDS)	1	95%	6/15/08	12/31/09	0%	G	\$0	\$0	\$0	\$0	0%	I G Y	G G
County Issues Management System	1	80%	12/1/07	6/30/09	0%	G	\$0	\$0	\$0	\$0	0%	I G I	G G
MCFRS ID Database*	1	0%			0%	- 1	\$48,000	\$48,000	\$48,000	\$0	0%	G G I	G G
Internet County Contract Search*	1	0%			0%	- 1	\$50,000	\$50,000	\$50,000	\$0	0%	G G I	G G
Photo Evidence Database Pro Config	1	30%	11/25/08	8/1/09	0%	G	\$10,000	\$10,000	\$10,000	\$0	0%	G G I	G G
	_												==
MCG	17						\$55.088.607	\$32.979.813	\$50.530.890	\$17.551.077	-8%		









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6/5/2009

## MCG IT Portfolio Dashboard Reporting – Project Detail

Project

**Program** 

Initiative

### Project and Program Level Reporting

**Key information** 

Project management execution tool for project managers to

- ■Log issues
- ■Manage risk
- ■Provide schedule updates
- Analyze scope change requests
- ■Report on budget
- Explain variances in measures above

Three month trending view to provide a view if each measure is improving or not

PSCS Radio Upgrade Modernization	PSCS	MCG		Bobby John		manuel DTSPM: nalPM: Randy Wheeler	4/30/2009	Querall	Project Status
Project Description & Objet This project will provide for an upg consisting of Police, Montgomer, Security. Upgrades will be made to telecommunications managemen	rade and moderniz y County Fire and F o the subscriber equ t and service tracki	Rescue, Sheriff, uipment by repland ng system to p	Corrections acement of n roperly mana	and Rehabil nobile and po	itation and Emo	ergency Management an which will also include an	d Homeland	Schedule GREE Risk GREE Scope GREE	GREEN N GREEN Budget N GREEN Issues
Comments on Overall Proje We have completed the purchase negotiations for bundle discounts Our combined Grants have will have	and are now in rece we were able to pu ve provided for the	ipt of the Fire / rchase an addit purchase of 87	Acts Grant 24 ional 123 rad '0 new P-25 c	ios. We have	e received the a				
	Project Sche	dule (GREE	N)					t Budget (GREEN)	
Explanation and Improveme	nt Plan					Explanation and In	nprovement Plan		\$ Authorized \$ 2,946, \$ Incurred \$ 2,946, \$ ETC \$ % PPV \$ PPC \$ 2,946
Workstream / Phase	% Comp.	Baseline Start	Baseline End	Proj/Act Start	Proj/Act End	\$3,500,000			
Overall Project Schedule	20%	03/31/09	06/30/09	03/31/09	06/30/09	\$3,000,000	- anno	A COUNTY	- Allino
Deploy & Transition	20%	03/31/09	06/30/09	03/31/09	06/30/09	\$2,500,000			
Milestones Scheduled for Completion	1	ı	Milestones to	o Complete	1	8500,000			
Milestones Completed to Date	0	(- vari	verall Schedu ance = behin	d schedule)	0%	ETC	2/28/2009 Projected	3/31/2009 ProjectCost Incu	rred 4/30/2009 Authorized
	Dining Di	ks (GREEN	Complete (	Work Days)	44		Desta	t Issues (GREEN)	
Ke¶ Management Risks (Es		KS [UHEEN	J.			Issues Requiring B	The state of the s	ention (Escalations)	
5 4	3/3	1/2009		4/30/2009		5 4 3 2 1 1 2/28/26	109	3/31/2009	4/30/2009
Escalations	High Impac		Total Ri (All Ope		1000	Escala	tions Hig	h Severity/Priority	Total Issues (All Open + Escalations)
Explanation and Improveme	nt Plan			Pi	roject Scope	(GREEN)		Sum of Open Change Available Authorize	d Funding Sources \$
							Sum o	% of Total Authorize of Open Change Request	
							NACO-OCC	// -	

Project Owner(s)



CountyStat

Status Date

**Project Status** 

## MCG IT Portfolio Dashboard Reporting - Health Criteria

	Key Factor:	RED	Over 25 days past the baseline end date
	1	YELLOW	Over 10 days and up to 25 days past the baseline end date
Schedule	Key Factor: Budget vs. Projected Project Cost  Key Factor: Severity of Issues  Key Factor: Severity of Issues  Key Factor: Impact of Open Change Orders on		
		GREEN	Less than or equal to 10 days past the baseline due
	Date	GRAY	No schedule data has been populated.
	Key Factor:	RED	Variance is greater than or equal to 15%
Budget	Budget vs. Projected	YELLOW	Variance is greater than 5% and less than 15%
		GREEN	Variance is less than or equal to 5%
	110,001 0001	GRAY	No budget data has been populated.
	Koy Eactor:	RED	Any Escalated issues
Issues	_	YELLOW	Any High severity issues
	Severity of issues	GREEN	No Escalated or High issues
	-		Impact is greater than 15% of Budget or 25 Days of effort
Scope		YELLOW	Impacts Total Budget 5-15% or 5-25 days of effort
	Schedule and Budget	GREEN	Impacts Total Budget less than 5% or less than 5 days of effort
	Key Factor:	RED	Any "Escalated" project risks
Diek	1	YELLOW	Any high risks
RISK	Severity of Risks	GREEN	No high risks
		GRAY	No open risks
		RED	If Budget, Schedule or Issues Management areas are Red
Overall		YELLOW	If Budget, Schedule, and Issues Management areas are Yellow or Risk or Scope are RED
		GREEN	No Reds; All of the Budget, Schedule or Issues must also be Green
		GRAY	Gray will populate if Budget and Schedule areas are both Gray.

This table displays each factor of overall project health and the rating criteria for each.





## MCG IT Portfolio Dashboard TechMod

8	Initiative	# of Projects	% Complete	Actual Start	Projected End	% Schedule Variance	Schedule
TechMod		3	39%	8/1/08	5/31/10	0%	G
	ERP (Phase 0)*	1	48%	1/9/09	9/14/09	0%	G
	CRM*	1	48%	811108	3/1/10	0%	G
	MCtime Deployment	1	20%	9/1/08	5/31/10	0%	G

Initiative	Authorized	Estimate To Complete	Projected Project Cost	Incurred to Date	% Projected Project Variance	Budget	Issues	Risk	Scope	Overall Status
TechMod	\$46,019,349	\$29,895,334	\$41,459,850	<b>\$11,564,516</b>	-10%	G	Y	Υ	G	Y
ERP (Phase 0)	\$37,398,292	\$24,586,120	\$33,545,403	\$8,959,283	-10%	G	G	G	G	G
CRM	<b>\$</b> 5,720,537	\$3,314,967	\$5,357,695	\$2,042,728	-6%	G	G	Υ	G	G
MCtime Deploymen	t \$2,900,520	\$1,994,247	\$2,556,752	\$562,505	-12%	G	Y	Y	G	Y





## MCG IT Portfolio Dashboard Integrated Justice Information System (IJIS) Program

Initiative	# of Projects	% Complete	Actual Start	Projected End	z Schedule Variance	Schedule
IJIS Program	3	53%	3/1/04		0%	G
SAO Case Management System*	1	37%	4/30/08		0%	T.
CRIMS*	1	22%	12/31/08	1	0%	1
IJIS Core	1	99%	3/1/04	5/20/09	0%	G

Initiative	Authorized	Estimate To Complete	Projected Project Cost	Incurred to Date	% Project Project Variance	Budget	Issues	Risk	Scope	Overall
IJIS Program	\$5,892,574	\$2,853,794	\$5,894,356	\$3,040,561	0%	G	G	R	G	Y
SAO CM	\$1,349,810	<b>\$</b> 552,013	\$1,349,810	\$797,797	0%	G	G	Y	G	G
CRIM		\$2,300,000	\$2,369,000	\$69,000	0%	G	G	R	G	Y
IJIS Cor	e \$2,173,764	\$1,781	\$2,175,546	\$2,173,764	0%	G	G	Τ	G	G





## MCG IT Portfolio Dashboard Public Safety Communications Systems (PSCS)

Initiative	# of Projects	% Complete	Actual Start	Projected End	% Schedule Variance	Schedule
PSCS	6	24%	9/9/08	4/30/10	0%	G
Station Alerting	1	0%	4/1/09	6/28/09	0%	G
CAD Server Replacements*	1	25%	10/1/08	12/31/09	0%	G
DataLink Conversion to PCS	1	10%	9/9/08	4/30/10	0%	G
eJustice - Phase 2 Rollout*	1	80%			0%	-1
PSCS Radio Upgrade Modernization	1	20%	3/31/09	6130109	0%	G
FRS Data911 MDT Replacements	1	10%	3/1/09	1/1/10	0%	G

Initiative	Authorized	Estimate To Complete	Projected Project Cost	Incurred to Date	% Projected Project Variance	Budget	Issues	Risk	Scope	Overall Status
PSCS	\$3,068,684	\$122,684	\$3,068,684	\$2,946,000	0%	G	Y	R	G	Y
Station Alerting	\$122,684	\$122,684	\$122,684	\$0	0%	G	G	Y	G	G
CAD Server Replacements*	\$0	\$0	\$0	\$0	0%	1	G	R	G	Y
DataLink Conversion to PCS	\$0	\$0	\$0	\$0	0%	1	G	G	G	G
eJustice - Phase 2 Rollout*	\$0	\$0	\$0	\$0	0%	1	Y	Y	G	L
PSCS Radio Upgrade Modernization	\$2,946,000	\$0	\$2,946,000	\$2,946,000	0%	G	G	G	G	G
FRS Data911 MDT Replacements	\$0	\$0	\$0	\$0	0%	1	G	G	G	G



**CountyStat** 

## MCG IT Portfolio Dashboard Departmental Initiatives

Initiative	<b>‡</b> of Projects	% Complete	Actual Start	Projected End	% Schedule Yariance	Schedule
Departmental Initiatives	5	41%	12/1/07	12/31/09	0%	G
Financial Disclosure System (FDS)	1	95%	6/15/08	12/31/09	0%	G
County Issues Management System	1	80%	12/1/07	6130109	0%	G
MCFRS ID Database*	1	0%		ļ.	0%	-1
Internet County Contract Search*	1	0%		ļ.	0%	-1
Photo Evidence Database Pro Config	1	30%	11/25/08	8/1/09	0%	G

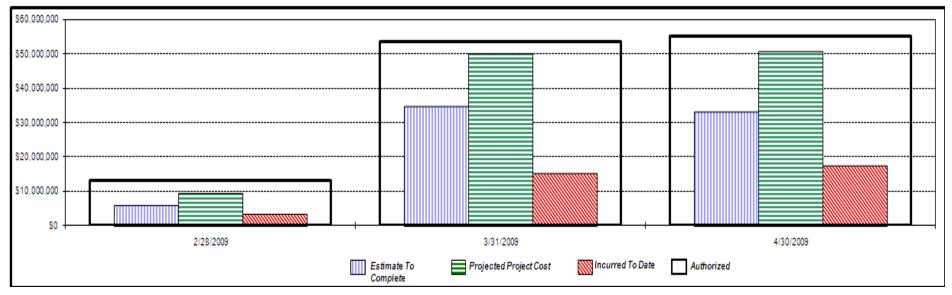
Initiative	Authorized	Estimate To Complete	Projected Project Cost	Incurred to Date	% Projected Project Variance	Budget	Issues	Risk	Scope	Overall Status
Departmental Initiatives	\$108,000	\$108,000	\$108,000	\$0	0%	G	G	Y	G	G
Financial Disclosure System (FDS)	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	0%	-	G	Y	G	G
County Issues Management System	\$0	\$0 \$0		\$0 0%		1	G		G	G
MCFRS ID Database*	\$48,000	\$48,000	\$48,000	\$0	0%	G	G	T	G	G
Internet County Contract Search*	\$50,000	\$50,000	\$50,000	\$0	0%	G	G	1	G	G
Photo Evidence Database Pro Config	\$10,000	\$10,000	\$10,000	\$0	0%	G	G	T	G	G





## MCG IT Portfolio Dashboard Budget Overview

#### MCG IT Initiative Budget



- The budget overview displays a three-month trending view of estimated dollars to complete, projected project cost, and incurred to date
- The box around each month's data delineates dollars authorized



## **Tracking DTS Project Methodology Progress**

#### Goals:

- Introduce project management dashboard and preliminarily assess IT project data
- Increased adoption of enterprise strategies and tools by County department IT and Project Management resources

#### How will we measure success

- Department can preliminarily describe overall project performance in terms of:
  - Alignment with enterprise project management principles and tools
  - Increased understanding and concurrence with project reporting methods
  - Long-term statistics demonstrating on-time, on-budget projects
  - Early identification and intervention on troubled projects





## **Tracking DTS Project Methodology Progress**

#### **Metrics Concepts**

Quantitative	■Long-term statistics demonstrating on-time, on-budget projects	Schedule  ## of Projects with Schedule Variance  % Variance Reduction of Overrun  Budget  ## of Projects with Budget Variance  % Variance Reduction of Overrun	
Qualitative	<ul> <li>Alignment with enterprise project management principles and tool</li> <li>Increased understanding and concurrence with project reporting methods</li> </ul>		

### Benefits to an Enterprise Project Methodology

- All project metrics are consistent and uniformly represented
- Projects follow a standard template for reporting
- Follows best project management practices
- Demonstrates IT leadership in managing risk and high cost programs

### Implementation Challenges

- Currently a manual compilation; Individual and Dashboard
- Sized for larger projects and longer IT efforts





## **Measuring Success**

### Meeting Goals:

- Determine the impact of DTS work on headline measures and establish new performance expectations and goals
  - How will we measure success
    - Updated performance plan is finalized and published to the web
- Introduce project management dashboard and preliminarily assess IT project data
  - How will we measure success
    - Introduce project management dashboard and preliminarily assess IT project data





## Wrap-Up

- Follow-Up Items
- Performance Plan Updating

